

CRYOCHEM OU3
ADMINISTRATIVE RECORD FILE *
INDEX OF DOCUMENTS

I. SITE IDENTIFICATION

- *** 1. Letter to Mr. Anthony T. Calzolaio, CryoChem, Inc., from Mr. Robert E. Day-Lewis, Commonwealth of Pennsylvania Department of Environmental Resources (PADER), re: Findings from August 10, 1982 meeting and plant inspection, 10/12/82.
- *** 2. Report: Site Inspection of CryoChem, Incorporated, prepared by NUS Corporation, 5/13/85.
- *** 3. Letter to Mr. Russell H. Wyer, U.S. EPA, from Mr. Anthony Calzolaio, CryoChem, Inc., re: Spillage of Trichloroethane, 7/25/86. A hand-drawn map of the CryoChem property is attached.

* Administrative Record File available 6/17/91, updated 7/30/91, 8/8/91, 10/3/91, 10/16/91, and 9/30/98.

** This document can be found in the CryoChem OU1 Administrative Record File.

*** This document can be found in the CryoChem OU2 Administrative Record File.

II. REMEDIAL ENFORCEMENT PLANNING

- *** 1. Administrative Order by Consent in the Matter Of: The CryoChem Site, 2/14/88. CryoChem, Inc.; C.S. Garber and Sons, Inc.; The Estate of Claude S. Garber; The Estate of Russell E. Garber, Sr.; Claude W. Garber; Kathryn N. Reigner; Harold L. Nettles; Anthony T. Calzolaio; Respondents, Docket No. III-88-17-DC, 2/14/88. P. 200353-200385.

III. REMEDIAL RESPONSE PLANNING

- ** 1. Report: Preliminary Health Assessment for CryoChem, Inc., prepared by the Agency for Toxic Substances and Disease Registry (ATSDR), 12/2/88.
- *** 2. Report: Final Remedial Investigation Report for the CryoChem Site, Volume I, prepared by JACA Corp., 6/6/90.
- *** 3. Report: Final Remedial Investigation Report for the CryoChem Site, Volume II, prepared by JACA Corp., 6/6/90.
- *** 4. Report: Final Remedial Investigation Report for the CryoChem Site, Volume III, prepared by JACA Corp., 6/6/90.
- *** 5. Report: Final Feasibility Study for the CryoChem Site, prepared by JACA Corp., 6/22/90.
- *** 6. Letter to Mr. Ronald Putt, CryoChem, Inc., from Mr. Michael Towle, U.S. EPA, re: Comments on the final Remedial Investigation Report and the draft Feasibility Study, 5/22/90. The following are attached:
 - a) Attachment 1, Final Remedial Investigations Report Comments;
 - b) Attachment 2, Comments on the Draft Feasibility Study;
 - c) Attachment 3, Calculations Indicating that "Soil" May Require Remediation;
 - d) Attachment 4, Additional Environmental/Chemical Characterization;
 - e) Attachment 5, "Pre-Design" Study Outline;
 - f) Attachment 6, Cryochem Site Risk Assessment conducted by EPA.
- *** 7. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Bruce Beach, Dynamac Corporation, re: Draft letter report, 8/15/90. The report is attached.
- 8. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Michael

Keefe, Planning Research Corporation, re: Cost estimate for soil vapor extraction, 8/31/90. P. 300001-300001.

9. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Bruce Beach, Dynamac Corporation, re: Final letter report on Feasibility Study alternatives, 9/13/90. P. 300002-300018. The letter report is attached.
10. Memorandum to Ms. Lisa Nichols, U.S. EPA, from Ms. Nancy L. Cichowicz, U.S. EPA, re: Technical review of calculations indicating that the soil could require remediation, 11/26/90. P. 300019-300027. The following are attached:
 - a) Summers method determination of soil action level for 1,1,1-Trichloroethane at CryoChem;
 - b) Summers method determination of soil action level for 1,1-Dichloroethane;
 - c) two charts of Summers method determination of soil action level for Tetrachlorethene;
 - d) Summers method determination of soil action level for Trichloroethene;
 - e) Summers method determination of soil action level for Ethyl Benzene;
 - f) Summers method determination of soil action level for Xylene.
11. Memorandum to Ms. Lisa Nichols, U.S. EPA, from Dr. Roy L. Smith, U.S. EPA, re: Carcinogenic classification of 1,1-Dichloroethane, 1/2/91. P. 300028-300028.
12. Memorandum to Ms. Lisa Nichols, U.S. EPA, from Dr. Roy L. Smith, U.S. EPA, re: Risks associated with soil contamination at CryoChem, 2/14/91. P. 300029-300030.
13. Report: Focused Feasibility Study for Operable Unit 3, CryoChem Site, prepared by Dynamac Corporation, 5/15/91. P. 300031-300076.
14. Memorandum of telephone conversation to file from Ms. Lisa Nichols, U.S. EPA, re: PADER comments on the

- feasibility study, 6/5/91. P. 300077-300077.
15. Letter to Ms. Lisa Nichols, U.S. EPA, from Mr. Ronald F. Klinikowski, PADER, re: PADER comments on the proposed plan and focused feasibility study, 6/7/91. P. 300078-300080.
 16. Memorandum to Ms. Lisa Nichols, U.S. EPA, from Dr. Roy L. Smith, U.S. EPA, re: Weight of evidence classification for 1,1-Dichloroethane, 6/14/91. P. 300081-300081.
 17. Report: Cost Comparisons for Low Temperature Volatilization Systems (LTVS) at Four Superfund Sites, prepared by U.S. Army Corps of Engineers, Kansas City District, 1/91. P. 300082-300110.
 18. Letter to Ms. Lisa Nichols, U.S. EPA, from Mr. Ronald F. Klinikowski, PADER, re: State ARARs, 1/8/91. P. 300111-300111.
 19. Memorandum to Ms. Lisa Nichols, U.S. EPA, from Ms. Joan Durkin and Mr. David Ignatuk, L.A. Salomon, Inc., re: Facts about Claymax, 7/11/91. P. 300112-300117.
 20. Letter to Ms. Lisa Nichols, U.S. EPA, from Mr. Michael A. Johnson, PRC Environmental Management, Inc., re: Results of performing the HELP model on four capping scenarios, 7/12/91. P. 300118-300136.
 21. Summers method determination of soil action level for Xylene, three scenarios, prepared by Ms. Lisa Nichols, (undated). P. 300137-300139.
 22. Summers method determination of soil action level for Benzene, three scenarios, prepared by Ms. Lisa Nichols, (undated). P. 300140-300142.
 23. Summers method determination of soil action level for 1,1-Dichloroethane, three scenarios, prepared by Ms. Lisa Nichols, (undated). P. 300143-300145.
 24. Summers method determination of soil action level for tetrachloroethane, three scenarios, prepared by Ms. Lisa Nichols, (undated). P. 300146-300148.
 25. Summers method determination of soil action level for 1,1,1-Trichloroethane, three scenarios, prepared by Ms. Lisa Nichols, (undated). P. 300150-300152.

26. Summers method determination of soil action level for Trichloroethene, three scenarios, prepared by Ms. Lisa Nichols, (undated). P. 300153-300155.
27. Letter to Mr. Ronald F. Klinikowski, PADER, from Ms. Lisa Nichols, U.S. EPA, re: Transmittal of a draft proposed plan and EPA's response to PADER's comments on the Summers model usage, 7/15/91. P. 300156-300157.
28. Costing calculations and handwritten notes, prepared by Ms. Lisa Nichols, (undated). P. 300158-300160.
29. Report of Conversation of Ms. Lisa Nichols, U.S. EPA, with Mr. Carl Elliot, Stout Environmental, re: Cost for soil removal, 7/16/91. P. 300161-300161. Cost estimates are attached.
30. Costing calculations and handwritten notes, prepared by Ms. Lisa Nichols, (undated). P. 300162-300166.
31. Report of Conversation of Ms. Lisa Nichols, U.S. EPA, with Dr. Dennis Chilcote, BioTrol, re: Soil washing estimates, 7/17/91. P. 300167-300167.
32. Letter to Ms. Lisa Nichols, U.S. EPA, from Ms. Pamela Sheehan, BioTrol, re: Removal of soil, 7/17/91. P. 300168-300171.
33. Memorandum to Mr. Thomas Voltaggio, U.S. EPA, from Mr. John J. Humphries, U.S. EPA, re: Proper design of an "EPA" cap, 5/23/90. P. 300172-300173.
34. U.S. EPA Engineering Bulletin, "In Situ Soil Vapor Extraction Treatment," 5/91. P. 300174-300184.
35. Letter to Ms. Lisa Nichols, U.S. EPA, from Mr. Mark Cadwallader, Gundler Lining Systems, Inc., re: Treatment processes for soil and handwritten cost estimates, 6/18/91. P. 300185-300187.
36. Memorandum to Mr. Abe Ferdas, U.S. EPA, from Mr. Paul Nadeau, U.S. EPA, re: Comments on selection of remedy for the site, 7/16/91. P. 300188-300189.
37. Letter to Ms. Lisa Nichols, U.S. EPA, from Ms. Pamela Sheehan, BioTrol, re: Removal of chlorinated solvents from soil, 7/17/91. P. 300190-300206. Fact sheets are attached.

38. Letter to Ms. Lisa Nichols, U.S. EPA, from Mr. Ronald F. Klinikowski, PADER, re: Comments on the proposed plan, 7/25/91. P. 300207-300207.
39. Letter to Mr. Ronald F. Klinikowski, PADER, from Ms. Lisa Nichols, U.S. EPA, re: Comments on the proposed plan, 8/2/91. P. 300208-300209.
40. Costing calculations, prepared by Ms. Lisa Nichols, (undated). P. 300210-300211.
41. Letter to Mr. Michael Keefe, PRC Environmental Management, from M. Johnson, Stout Environmental, Inc., re: Preliminary pricing information for solvent contaminated soil, 8/15/90. P. 300212-300213. A facsimile cover sheet dated July 11, 1991 is attached.
42. Memorandum to Mr. Ron Klinikowski, PADER, from Ms. Ruth Bishop, PADER, re: Review of Summer's model results, 6/27/91. P. 300214-300215. A facsimile cover sheet dated July 1, 1991 is attached.
43. Costing calculations and handwritten notes, prepared by Ms. Lisa Nichols, (undated). P. 300216-300218.
44. U.S. EPA Proposed Plan, CryoChem Superfund Site, Operable Unit 3, 8/8/91. P. 300219-300238.
45. Letter to Ms. Lisa Nichols, U.S. EPA from Mr. Ronald F. Klinikowski, PADER, re: Comments on the proposed plan for CryoChem OU3, 8/7/91. P. 300239-300239.
46. Memorandum to Ms. Lisa Nichols, U.S. EPA, from Mr. Robert S. Davis, U.S. EPA, re: Review of the Proposed Plan for the CryoChem site, 8/12/91. P. 300240-300240.
47. Letter to Mr. Ronald Klinikowski, PADER, from Ms. Lisa Nichols, U.S. EPA, re: Transmittal of the draft Record of Decision for the CryoChem Site, 9/16/91. P. 300241-300241.
48. Record of Decision, CryoChem Site, Earl Township, PA, 9/30/91. P. 300242-300323.
49. Explanation of Significant Differences, CryoChem Superfund Site, Operable Unit 3 (Contaminated Soil), 9/22/98. P. 300324-300341.

V. COMMUNITY INVOLVEMENT/CONGRESSIONAL CORRESPONDENCE/ IMAGERY

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1. Report: Final Draft Community Relations Plan, CryoChem Superfund Site, prepared by the U.S. EPA, 7/16/90.
 2. Letter to Ms. Amy J. Barnett, U.S. EPA, from Beryl Glassmoyer, re: Complaint letter concerning the CryoChem Site, 8/14/91. P. 500001-500001.
 3. Transcript of public hearing held for the CryoChem Site, 8/15/91. P. 500002-500028.
 4. Hand-drawn sketch and note from Mr. Paul Olock, re: The CryoChem Site located near his residence, 8/21/91. P. 500029-500030. A photocopy of a leaf taken from Mr. Olock's lawn is attached.
 5. Memorandum to Mr. Bob Davis, U.S. EPA, from Ms. Lisa Nichols, U.S. EPA, re: review of the leaf submitted by Mr. Olock to determine the cause of damage, 8/21/91. P. 500031-500031.
 6. Telephone conversation record of Ms. Lisa Nichols, U.S. EPA, with Mr. Bob Davis, U.S. EPA, re: Cause of damage to the leaf submitted by Mr. Olock, 8/22/91. P. 500032-500032.
 7. Letter to Mr. Paul Olock, from Ms. Lisa Nichols, U.S. EPA, re: Explanation of the cause of damage to the leaf submitted by Mr. Olock, 8/22/91. P. 500033-500033.